

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) A method for controlling metabolism of nitric oxide comprising administrating to an animal in need thereof effective amount of a perfluorocarbon having a molecular weight of from about 400 Dalton to about 700 Dalton, wherein said animal is suffering from at least one disease or condition selected from the group consisting of ~~diseases or conditions resulting from oxidative or nitrosative stress~~ hypotension, vasoplegia, vasoconstriction, vasorelaxation, thrombosis, blood clotting endotoxic shock and septic shock, restenosis after angioplasty, ischemic perfusion injury and preeclampsia.

2. (Original) The method according to claim 1 wherein the perfluorocarbon is administered in an amount of at least about 0.5% w/volume of blood to inhibit nitric oxide activity.

3. (Original) The method according to claim 1 wherein the perfluorocarbon is administered in an amount of less than about 0.5% w/volume of blood to enhance nitric oxide activity.

4. (Original) The method according to claim 3 wherein the perfluorocarbon is administered in an amount of from about 0.01% to about 0.1% w/volume of blood to enhance nitric oxide activity.

5. (Original) The method according to claim 3 wherein at least one nucleophile is administered in conjunction with the perfluorocarbon.

6. (Original) The method according to claim 5 wherein the nucleophile is a thiol or mixture of thiols.

7. (Original) The method according to claim 6 wherein the thiol is  $\alpha$ -lipoic acid, L-cysteine, or glutathione.

Claim 8. (Cancelled)

9. (Original) The method according to claim 2 comprising treating hypotension and vasoplegia.

10. (Original) The method according to claim 3 comprising treating vasorelaxation.

11. (Original) The method according to claim 3 comprising treating blood clotting and thrombosis.

Claim 12. (Cancelled)

13. (Original) The method according to claim 3 comprising suppressing restenosis after angioplasty.

14. (Original) The method according to claim 3 comprising treating preeclampsia.

15. (Withdrawn) A composition comprising a perfluorocarbon and a nucleophile.

16. (Withdrawn) The composition according to claim 15 wherein the nucleophile is a thiol.

17. (Withdrawn) The composition according to claim 16 wherein the thiol is  $\alpha$ -lipoic acid, and/or L-cysteine, and/or glutathione.

18. (Withdrawn) A method for preparing a composition for treating nitric oxide insufficiency comprising preparing or obtaining an emulsion comprising a perfluoro compound.

19. (Withdrawn) A method for preparing a composition for enhancing the effects of nitric oxide comprising preparing or obtaining an emulsion comprising a perfluoro compound.

20. (Withdrawn) The method according to claim 18 comprising adding to the emulsion a nucleophile.

Claims 21 - 22. (Cancelled)

23. (Withdrawn) A method for generating S-nitrosothiols *in vivo* comprising administering to an animal in need thereof an effective amount of a perfluorocarbon and an optional nucleophile.

24. (Original) A method for treating microbial or viral infections comprising administering to an animal in need thereof an effective amount of a perfluorocarbon and an optional nucleophile.

25. (Original) The method according to claim 24 wherein the viral infections are selected from the group consisting of rhinoviral infections and retroviral infections.

26. (Original) A method for treating leukemia comprising administering an effective amount of a perfluorocarbon to a patient in need thereof.

Claim 27. (Cancelled)

28. (Previously Presented) the method according to claim 1 wherein the perfluorocarbon is in an emulsion, wherein the particle size of the perfluorocarbon ranges from about 25 nm to about 1 micron.

Claims 29-30. (Cancelled)